DOCUMENT RESUME

ED 086 522 SE 017 122

AUTHOR	Climer, Robert R.
TITLE	Human Ecology, Science (Experimental): 5365.60.
INSTITUTION	Dade County Public Schools, Miami, Fla.
PUB DATE	72
NOTE	16p.; An Authorized Course of Instruction for the Quinmester Program
EDRS PRICE	MF-$0.65 HC-$3.29
DESCRIPTORS	Behavioral Objectives; *Behavior Change; Biology; Curriculum Guides; Ecology; *Environmental Education; Human Development; *Instructional Materials; *Secondary School Science
IDENTIFIERS	*Quinmester Program

ABSTRACT

This course involves the scientific study of the close relationship between evolving human behavior and changing environmental conditions. No state-adopted text is recommended for the course, but the use of several paperbacks, as well as Scientific American Reprint Series, is highly recommended. Supplementary texts are suggested. Eight performance objectives are listed. The course outline includes five major concepts: (1) Human Behavior in Response to the Environment; (2) Comparison of Behaviors in Lower Animals and Man; (3) Cultural Developments and Their Effects on the Behavior of Man; (4) Behavioral Conflicts of Man in Modern Society; and (5) Projecting Future Society and the Future Behavior of Man. Demonstrations by resource people are suggested. Student-performed activities suggested include reports, projects, films, and film strips. An extensive list of discussion questions is presented, as is a master sheet coordinating the entire curriculum. (Author/EB)

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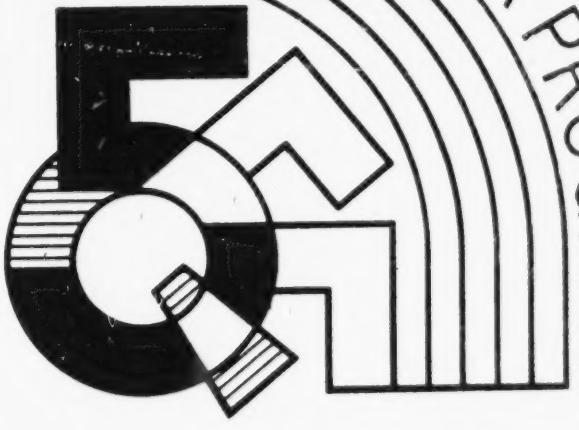

HUMAN ECOLOGY

SCIENCE 5365.60

(Experimental)

DADE COUNTY PUBLIC SCHOOLS

DIVISION OF INSTRUCTION • 1971

SE 017 122

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(Experimental)

Written by Robert R. Climer
for the
DIVISION OF INSTRUCTION
Dade County Public Schools
Miami, Florida
1972

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HUMAN ECOLOGY

COURSE DESCRIPTION

The scientific study of the close relationship between evolving human behavior and changing environmental conditions. This course is a study of the question...does the changing environmental condition reflect human values or is it a cause of them?

ENROLLMENT GUIDELINES

1. Suggested if the student plans more work in this area.
2. Elective
3. Guidelines for success

   A. General Biology (3-4 quin courses)
   B. Psychology or Sociology

STATE ADOPTED TEXTS

There are no state adopted texts for this course at this time. The use of several paperbacks is recommended.

PERFORMANCE OBJECTIVES

1. The student will identify factors of the environment which closely relates to behavior.

2. The student will compare the similarities and differences between the lower animals and man.

3. The student will describe the human socio-psychological effects of cultural developments on the behavior of man.

4. The student will identify major causes for man's loss of a consciousness of self-worth in modern society.

5. The student will describe the factors which enable a person to overcome his own instincts.

6. The student will identify major factors which block his ability to become a self-governing person.

7. The student will discuss and elaborate on a plan for the development of a socio-psychologically sane society.

8. The student will present a plan for a human environment to meet the needs of human behavior for the year 2000.

COURSE OUTLINE

I. Human Behavior in Response To The Environment

   A. Traits acquired and inherited

   B. Personality characteristics

   C. Stimulus - impulse - and response

   D. Instinct

   E. Conditioned response

   F. Reflex response

   G. Learned behavior

   H. Integrated behavior toward a goal

II. Comparison Of Behaviors Found In Lower Animals And Man

   A. Territoriality

   B. Perpetuation of the species

C. Migratory instincts

D. Vegetarian food getting behaviors

E. Carnivorous food getting behaviors

F. Aggression

G. Cooperative behavior

H. Behavior which transcends instinct

I. Behavior which projects beyond the immediate time

*III. Cultural Developments And Their Effects On The Behavior of Man

A. The evolutionary pathway to man

B. The evolution of intelligence

C. The early relatives of man

D. Stone tools and human behavior

E. Primitive kinship

F. The origin of facial expressions

G. The origin of speech

H. The origin of society

I. The origin of cities

J. The effects of social deprivation

K. The effects of urbanization

IV. Behavioral Conflicts Of Man In Modern Society

A. Development of a self-concept

B. Need to be a free individual

C. Need for creative individuality

D. Need for human values and human ethics

E. Human need in mass urban society

F. Conflicts between individual needs and needs of urban society
   1. To belong to the group and remain an individual
   2. To resent lack of reward but desire to create-produce

*These topics are covered in Scientific American reprint series. The teacher should select those most appropriate.

G. People as environmental factors

H. Inherited biological superiority

I. Inherited economical superiority

J. Need for motivation

K. Imprinting and mal imprinting

L. Ability to organize stimuli and maintain creative curiosity

V. Projecting Future Society And The Future Behavior of Man

A. Governmental influences on the character of man

B. Political changes in society

C. Cultural changes in society

D. Technological changes in society

E. The "now" generation and its influence toward the future
   1. Cultural processes
   2. Consumer demand
   3. Political influence
   4. Value system

EXPERIMENTS AND DEMONSTRATIONS

Fromm, Erich. Man For Himself. New York: Fawcett World Library, 1968. ($.95 paper)

1. Action Orientations of Human Behavior (p. 120)

Karlinger, Fred N. Foundations of Behavioral Research. New York: Holt Rinehart and Winston, Inc., 1966.

2. Techniques for Observing Behavior (p. 503)
3. Projective Methods for Measuring Human Behavior (p. 525)
4. Content Analysis of Human Behaviors (p. 539)
5. Sociometric Methods of Measuring Human Behavior (p. 554)
6. Statistical Methods of Measuring Behavior (p. 603)

Demonstrations By Resource People

7. Guidance Test Chairman, demonstrate the measurement and analysis of human intelligence on an intelligence test.

8. Dade County Psychological Association, 8220 S. W. 98th St. Ask for a technician to demonstrate the administration and evaluation of a psychological examination.

REPORTS AND PROJECTS

1. What were the results of some of the national tests of driving and what did they measure?

2. Obtain, administer and interpret one of the following tests designed to measure a human behavior:

   a. political questionaire
   b. national product advertising questionaire
   c. human self-concept questionaire

3. Construct a test and a testing program to measure some of the human ecology problems of behavior.

4. Construct and administer an opinion poll concerning one of the following:

   a. The depletion of natural resources.
   b. The air pollution in Dade county.
   c. The water pollution problems of Dade County.
   d. The lack of morals of the younger generation.
   e. The causes of the use of drugs among users.
   f. Personal prejudice towards ethnic and economic groups.

5. Collect a series of newspaper articles which show social ills of today and analyze their basic causes.

6. Select some technological advance made since the agricultural revolution and describe its effects psychologically and emotionally on individuals of today's mass society.

FIELD TRIPS AND SPEAKERS

1. Dr. Carroll Truss, Dade County Psychological Association, 8820 S. W. 98th St., Miami. Testing Laboratory.

FILMS

Films available from Dade County Audio Visual Center

1. Habit Patterns
   AV# 1-10075, 15', BW
2. Facing Reality
   AV# 1-00166, 12', BW
3. Personality and Emotions
   AV# 1-00045, 13', BW
4. Litterbug
   AV# 1-00977, 10', C
5. Attitudes and Health
   AV# 1-00147, 10', C
6. Anger at Work
   AV# 1-10069, 20', BW
7. Control Your Emotions
   AV# 1-10070, 13', BW
8. Effective Criticism
   AV# 1-00572, 10', BW
9. Make Your Own Decisions
   AV# 1-00202, 11', BW
10. Person to Person Communication
    AV# 1-10065, 13', C
11. Bushmen of the Kalahari
    AV# 1-13541, 12', C
12. Changing City
    AV# 1-13299, 16', C
13. Behavior (AIBS PT. 4, NO 11)
    AV# 1-30692, 28', C
14. Behavior in Animals - Plants
    AV# 1-02415, 11', C

FILMSTRIPS

Vocational Education Products
California St. Polytechnic College
San Luis Obispo, Cal. 93401

Ecology and Agriculture set
Five filmstrips - $40.

1. "Ecology and the Agricultural Environment"
2. "Soil and the Agricultural Environment"
3. "Water and the Agricultural Environment"
4. "Air and the Agricultural Environment"
5. "People and the Agricultural Environment"

Procter and Gamble Co.
Phosphates and the Environment
P. O. Box 14009
Cincinnati, Ohio 45214
Free

6. Filmstrip - "Phosphates and the Environment"
   Fact Sheets - "Phosphates and Detergents"
   Script - "Phosphates and the Environment"

Wards Natural Science Establishment, Inc.,
P. O. Box 1712, Rochester, N. Y. 14603

Six filmstrips with teachers guide

7. "Man the Dominant Species"
8. "Man and Hunger"
9. "Man the Multiplier"
10. "Gregarius Man"
11. "Man the Organizer"
12. "Man and Tommorrow"

AVI Associates, Inc.
825 Third Avenue
New York, N. Y. 10022

Set I. Ecology and Environment Five filmstrips - $59.

13. "Is there Life on Earth?"
14. "Ocean of Air"
15. "Water-Clear and Otherwise"
16. "Of Food and Land"
17. "Energy Applied"

Set II. Man and Nature Five filmstrips - $59.

18. "Population—The Numbers Game"
19. "Concrete Habitat"
20. "The Busy-Body"
21. "Unthinking Man"
22. "Man: The Builder"

DISCUSSION QUESTIONS

1. What are the bases of human behavior?

2. What is the difference between an aquired and an inherited characteristic?

3. Identify ten inherited traits.

4. Can the actions of an individual be inherited?

5. What is the S.I.R. formula? How does it relate to human behavior?

6. What is an instinct? Do human beings have instincts? How can you prove or disprove it?

7. What is a conditioned response?

8. What causes a conditioned response?

9. How many conditioned responses are there in human beings? Give as many specific examples as you can.

10. How does society and culture condition the responses of people?

11. What is learned behavior?

12. What is the difference between a conditioned response and a reflex action?

13. What is a concept and how is it formed?

14. How is an idea formed?

15. How are values formed?

16. How are instincts mediated or changed by consciousness of them?

17. How does a system of overall governing values organize and direct behavioral actions?

18. What does the evolutionary rule that "Ontogeny recapitulates Phylogeny" have to do with the evolution of human behavior?

19. Is there any similarity between the territorial instinct in lower animals and man? What are the differences?

20. Is there a territorial instinct in man? How is it changed? What are some influences in today's society which mediate it?

21. Is there any similarity between arena behavior in lower animals and man? What are the differences?

22. Is there an instinct for arena behavior in man? Discuss why and give examples.

23. What similarities and differences are there in pair bonding behaviors in lower animals and man?

24. What is LeNoyau behavior? How is it similiar in lower animals and in man? What are the differences?

25. How do migratory or homing instincts play a role in lower animals and man?

26. Is there any indication of a homing instinct in man?

27. How is the need to belong to a biological nation similiar in lower animals and man? What are the differences?

28. How is the behavior of a vegetarian food getter different from a carnivorous animal?

29. What is aggression? What causes this type of behavior?

30. What are the similarities and differences between lower animals and man in the expression of aggressive behavior?

31. What is displacement behavior? Why is it needed?

32. How is displacement behavior expressed in lower animals and in man?

33. What is the relationship between amity and enmity in the complex behaviors of lower animals and man?

34. How does behavior go beyond instinct in lower animals and man?

35. How does behavior transcend time pressures of lower animals and man?

36. What is the evolutionary scale of intelligence and how was it developed?

37. What are the effects of the lack of motherly love in lower animals and man?

38. What are the effects of social deprivation in lower animals and man?

39. How did stone tools effect human behavior?

40. What were the origins of facial expressions?

41. How is pupil size an expression of attitude? How could this be used in testing level of human perceptive interest?

42. How do physical factors like salt effect human behavior? What other similiar cultural physical needs similarly effect human behavior? How?

43. Does the way people are distributed over the earth effect their behavior? Are people where they want to be, or are they a product of the place they are?

44. How has human behavior led to the development of cities?

45. How has the agricultural revolution changed human behavior?

46. How did the origin of speech change human behavior?

47. How has human population growth changed human behavior?

48. What are the causes of the loneliness and anxiety of modern man?

49. How does an individual gain the freedom of inner strength and self confidence?

50. What is a creative person, why are they creative?

51. What are the arts of living and how does a person gain them?

52. What are the basic characteristics of human nature and human values?

53. What are the basic human needs and conditions for human existence?

54. What does the structure of a political system have to do with the character and ethics of a man?

55. What are the alternatives of the chaos of today and the planning for a future sane society?

TEACHER-STUDENT TEXT REFERENCES

1. Ardrey, Robert. The Territorial Imperative. New York: Dell Publishing Co., Inc., 1971. ($1.25)

2. Campbell, Rex R. Society and Environment—the Coming Collision. Rockleigh, New Jersey: Allyn and Bacon Inc., 1972.

3. Ehrlich, Paul. The Population Bomb. New York: Ballantine Books, 1967. (95¢ paperback)

4. Fast, Julius. Body Language. New York: Pocket Books Inc., 1970. ($1.50 paperback)

5. Fromm, Erich. Man For Himself. New York: Fawcett World Library, 1968. (95¢ paperback)

6. Fromm, Erich. The Sane Society. New York: Fawcett World Library, 1969. (95¢ paperback)

7. Kerlinger, Fred N. Foundations of Behavioral Research. New York: Holt Rinehart and Winston, Inc., 1966.

8. Koestler, Arthur. The Act of Creation. New York: Dell Publishing Co., 1969. ($1.25 paperback)

9. May, Rollo. Man's Search for Himself. New York: The New American Library Inc., 1953. ($1.25 paperback)

10. Morris, Desmond. The Human Zoo. New York: Dell Publishing Co., Inc., 1969. ($1.25 paperback)

11. Reich, Charles A. The Greening of America. New York: Bantam Books Inc., 1971. ($1.95 paperback)

12. Swatek, Paul. The Users Guide to the Protection of the Environment. New York: Ballantine Books Inc., 1970. ($1.25 paperback)

13. Wendt, Herbert. The Road to Man. New York: Pyramid Publications, Inc., 1962.

Scientific American Reprint Series, Scientific American Publishers, 415 Madison Ave., New York 17, New York.

14. Adams, Robert M., "The Origin of Cities".
15. Andrew, Richard J., "The Origins of Facial Expressions".
16. Binford, Sally R.,"Stone Tools and Human Behavior".
17. Bitterman, M. E., "The Evolution of Intelligence".
18. Bloch, M. W., "The Social Influence of Salt".
19. Braidwood, Robert J., "The Agricultural Revolution".
20. Crombie, A. C., "Early Concepts of the Senses of the Mind".
21. Cruxent, Jose, "Early Man in the West Indies".

22. Dan Singh, "Sheo. Urban Monkeys".
23. Deevey, Edward S., "The Human Population".
24. Ferster, Charles, "Arithmetic Behavior in Chimpanzees".
25. Fortes, Meyer, "Primitive Kinship".
26. Hackett, Charles F., "The Origin of Speech".
27. Harlow, Harry, "Love in Infant Monkeys".
28. Harlow, Harry, "Social Deprivation in Monkeys".

SUPPLEMENTARY TEXTS

29. Berelson, B and G. A. Steiner. Human Behavior. New York: Harcourt, Brace and World, 1964.

30. Berkowitz, L. Aggression. New York: McGraw Hill, 1962.

31. Crawley, E. Dress, Drinks and Drums. Methuen, 1931.

32. Hilgard, Ernest. Introduction to Psychology. New York: Harcourt Brace, 1953.

33. Morris, Desmond (editor). Primate Ethology. Chicago: Aldine, 1964.

34. Packard, Vance. The Status Seekers. New York: McKay, 1959.

35. Russell, C. and Russell, W. M. S. Human Behavior. Andre Deutsch, 1961.

36. Sluckin, W. Imprinting and Early Learning. Chicago: Aldine, 1965.

37. Washburn, S. L. "Social Behavior of Baboons and Early Man" in Social Life of Early Man. Chicago: Aldine, 1961.

MASTER SHEET--HUMAN ECOLOGY

Objectives	Student/Teacher Text	Projects	Questions	Films	Filmstrips
1	32,29		1-19	1,2,3	10,21
2	1,33,30,36,10,11	2	18-22	13-14,20	19
3	1,6,9-Chapt. 2, 10, 11,12,14,16,17,18, 19,20,22,23,24,25, 26,27,28,32,33	4-6	36,39,42,45, 28,46,41,38,37, 44,47,49,48	11,12,13,14	7-12
4	9-Chapt. 2		50-51		18-22
5	9-Chapt. 3		52		18-22
6	9-Chapt. 3		53-54		18-22
7	5,11,32		41		18-22
8	6,11,12	5	43,44,48		13-22